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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/561,008	12/16/2005	Helmut Forstner	281973US6PCT	6034	
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			ALANKO, ANITA KAREN		
ALEXANDRI	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			1792		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/561.008 FORSTNER ET AL. Office Action Summary Examiner Art Unit Anita K. Alanko 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 20 November 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 36.40.44.46.47.49.50 and 67-70 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 36.40.44.46.47.49.50 and 67-70 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. ___ Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ______.

5) Notice of Informal Patent Application

6) Other:

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Election/Restrictions

Applicant's election with traverse of Species A in the reply filed on 11/20/08 is acknowledged. The species restriction is withdrawn and all claims are examined.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 36, 40 and 67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Försnel in view of Babko-Malyi (US 2003/0106788 A1) and Carr (US 2008/0099441 A1)

Försnel discloses a method comprising directing, to locally remove a coating (silicon oil residues from metal surfaces, col.4, lines 47-50, since broadly interpreted residues form a coating that is desired to be removed), the plasma 34 onto the region of the substrate from which the

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coating is to be removed, wherein the plasma has an effective width determined by the nozzles 24 (Fig.2, effective to remove the coating).

As to claim 67, Försnel fails to disclose the use of a slit-shaped source. It would have been an obvious matter of design choice to use a slit-shaped source, since such a modification would have involved a mere change in the size of a component. A change of size is generally recognized as being within the ordinary level of skill in the art. *In re Dailey*, 357 F.2nd 669, 149 USPO 1966.

Still further, Babko-Malyi teaches that it is known to change the shapes of openings to either slits and/or holes (paragraph [0038] last line). It would have been obvious to one with ordinary skill in the art to use slits in the method of Försnel in order to direct the plasma in a desired shape to correspond with a desired shape of coating removal, as is useful as taught by Babko-Malyi to yield the predictable result of coating removal.

Further as to claim 67, Försnel fails to disclose rotating the nozzles. Carr teaches that a known technique for plasma processing includes rotating nozzles (step 610, paragraph [0068]) in order to shape the surface of the workpiece as desired. It would have been obvious to rotate the nozzles in the modified method of Försnel because Carr teaches that this is a useful technique for shaping a workpiece as desired with the predictable result of processing that part of the workpiece which is desired to be processed.

As to claim 36, Försnel discloses to change a coverage width of plasma and substrate by deactivating or activating plasma beams (col.5, lines 51-53).

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As to claims 40 and 44, since no other description is disclosed in Försnel, it is expected that movement is parallel and normal to the face of the substrate, as cited. Further, Carr teaches relative movement (step 610) which enables processing at desired locations, including the edge.

As to claims 49-50, it would have been obvious to use the method of Försnel to remove the cited coatings because they are conventionally removed by plasma etching and is advantageous in that reactant species can be optimized depending on the type of coating to be removed.

Claims 46 and 70 are rejected under 35 U.S.C. 103(a) as being unpatentable over Försnel in view of Babko-Malyi (US 2003/0106788 A1), Carr (US 2008/0099441 A1) and Kobayashi (US 7,332,056 B2).

The discussion of modified Försnel from above is repeated here.

As to claims 46 and 70, Försnel fails to disclose a shield. Kobayashi teaches that shields 20, 23 are useful next to substrates in order to achieve uniform processing near the edges of the substrate being processed (col.2, lines 1-11). It would have been obvious to provide a shield as taught by Kobayashi in the method of Försnel in order to improve the uniformity of processing, which increases the yield of the final product.

Claims 44, 49-50, 68-69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Försnel in view of Babko-Malyi (US 2003/0106788 A1), Carr (US 2008/0099441 A1) and Siniaguine et al. (US 6,238,587 B1).

The discussion of modified Försnel from above is repeated here.

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As to claims 68-69, Försnel fails to disclose varying the angle of the plasma jet. It is noted that apparatus limitations, unless they affect the process in a manipulative sense, may have little weight in process claims. *In re Tarczy-Hornoch* 158 USPQ 141, 150 (CCPA 1968); *In re Edwards* 128 USPQ 387 (CCPA 1961); *Stalego v. Heymes* 120 USPQ 473, 478 (CCPA 1959); *Ex parte Hart* 117 USPQ 193 (PO BdPatApp 1957); *In re Freeman* 44 USPQ 116 (CCPA 1940); *In re Sweenev* 72 USPO 501 CCPA 1947).

Siniaguine teaches that it is useful to vary the angle of the plasma jet relative to the coating to be removed (col.3, lines 27-41) in order to influence the conditions of the plasma flowing over the surface, and thereby influence coating removal. It would have to vary the angle in the method of Försnel because Siniaguine teaches that varying the angle is known and useful, and such is expected to yield the predictable result of coating removal.

As to claim 44 Försnel removes from a face of a substrate, but it would have also been obvious to remove from an edge as cited because it is obvious to remove coatings that are not needed in the final product, such as from the edge.

As to claims 49-50, it would have been obvious to use the method of Försnel to remove the cited coatings because they are conventionally removed by plasma etching and is advantageous in that reactant species can be optimized depending on the type of coating to be removed.

Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over Försnel in view of Babko-Malyi (US 2003/0106788 A1), Carr (US 2008/0099441 A1) and Tanaka et al (US 2002/0008082 A1).

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The discussion of modified Försnel from above is repeated here.

As to claim 47, Försnel fails to explicitly disclose a discharge device. It is noted that apparatus limitations, unless they affect the process in a manipulative sense, may have little weight in process claims. In re Tarczy-Hornoch 158 USPQ 141, 150 (CCPA 1968); In re Edwards 128 USPQ 387 (CCPA 1961); Stalego v. Heymes 120 USPQ 473, 478 (CCPA 1959); Ex parte Hart 117 USPQ 193 (PO BdPatApp 1957); In re Freeman 44 USPQ 116 (CCPA 1940); In re Sweeney 72 USPQ 501 CCPA 1947).

Tanaka teaches that suctioning or evacuating by-products (by 60a) is useful when using a plasma jet (Fig.2) in order to achieve high accuracy in coating removal. It would have been obvious to use a discharge device in the method of Försnel because Tanaka teaches that it is useful to achieve high accuracy in coating removal.

Response to Amendment

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection. Carr is newly cited to teach rotating nozzles and Kobayashi is newly cited to teach providing a shield.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anita K. Alanko whose telephone number is 571-272-1458. The examiner can normally be reached on Mon-Fri until 3:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Anita K Alanko/ Primary Examiner, Art Unit 1792